

FIG. 1

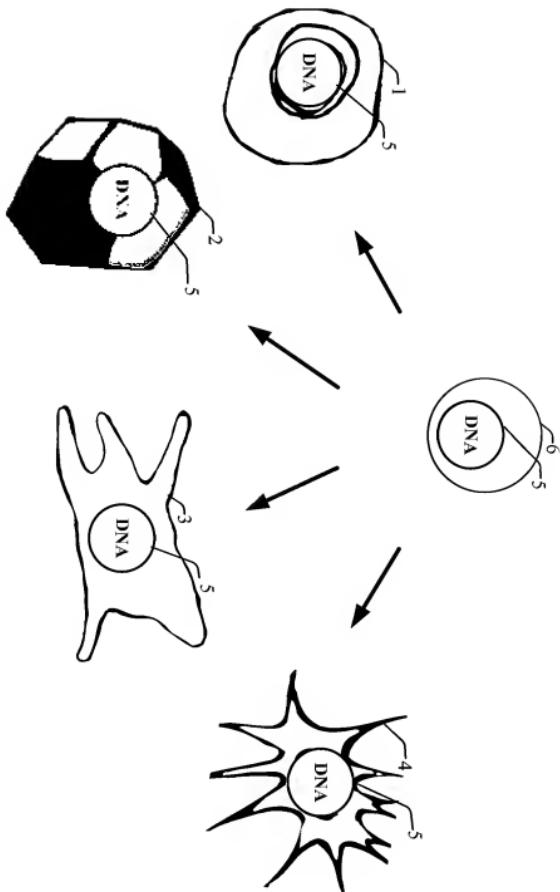


FIG. 2A

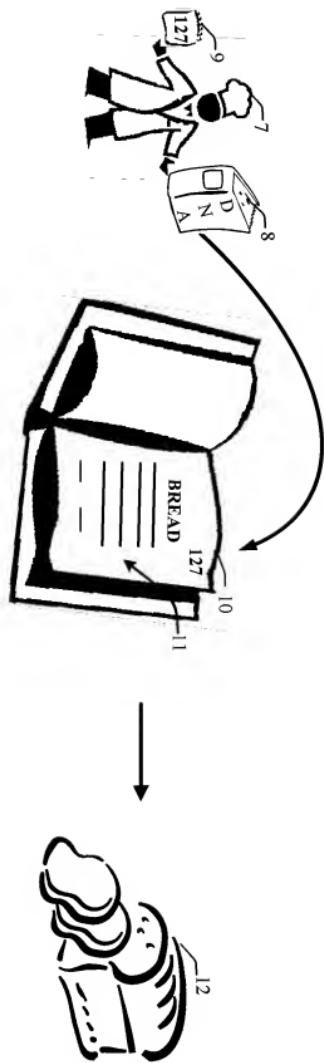


FIG. 2B

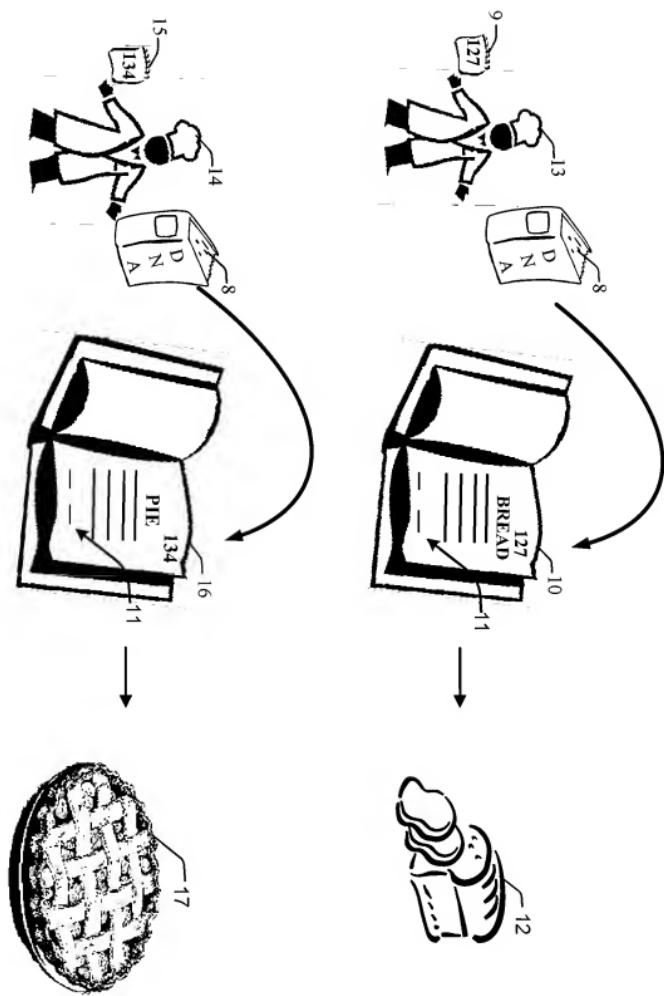


FIG. 3

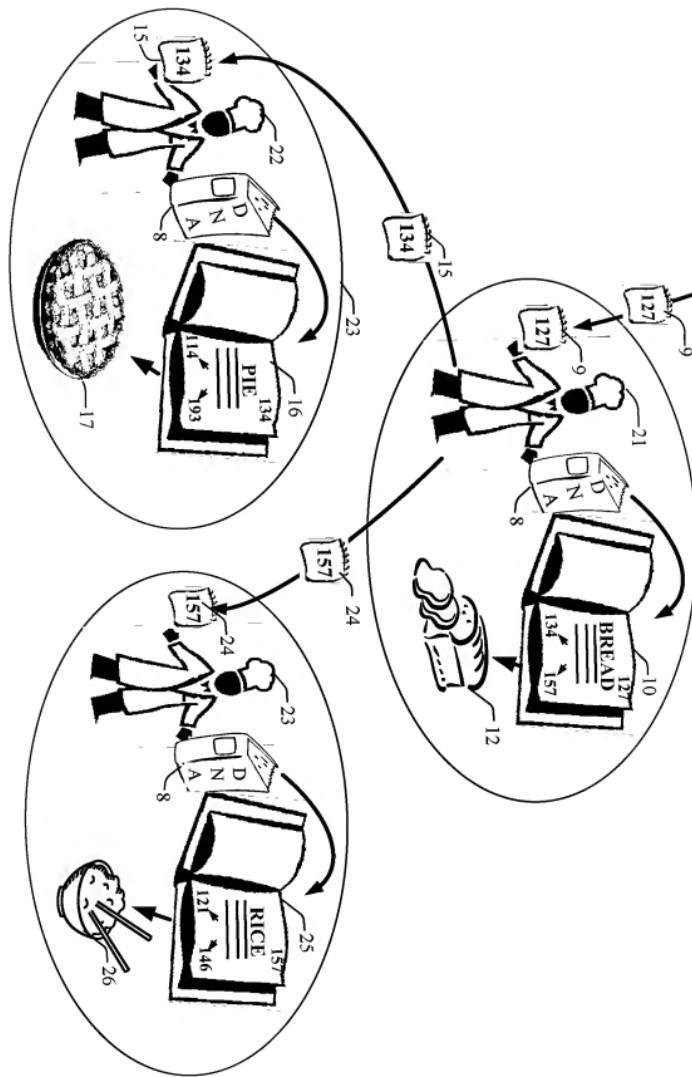


FIG. 4

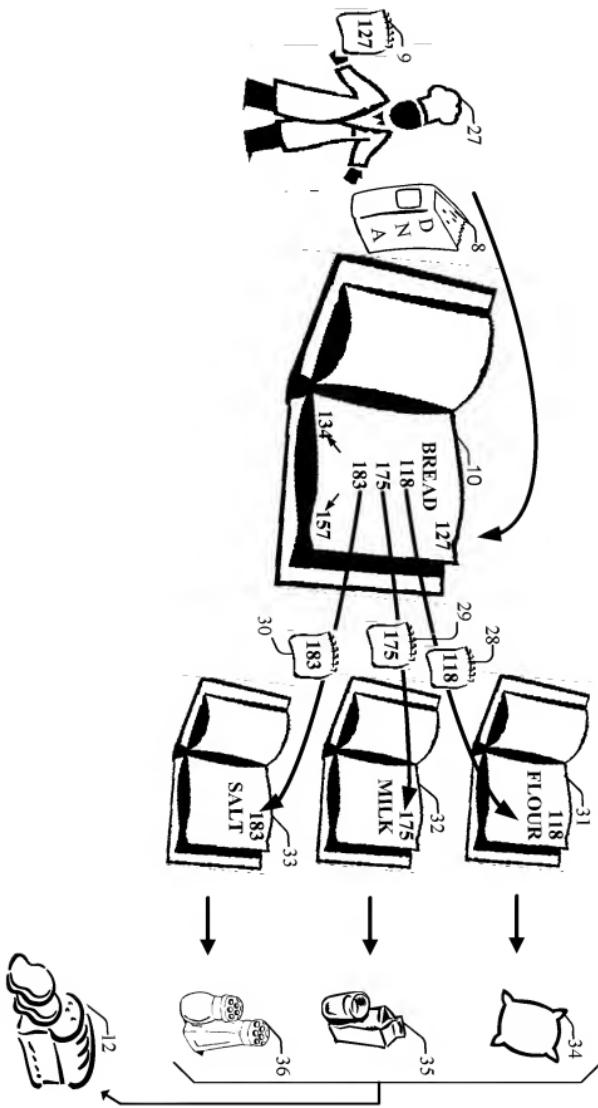


FIG. 5A

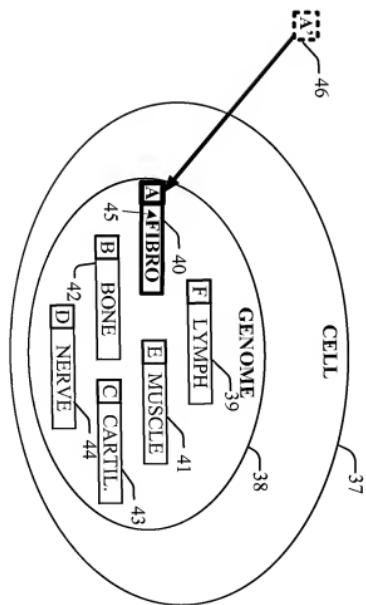


FIG. 5B

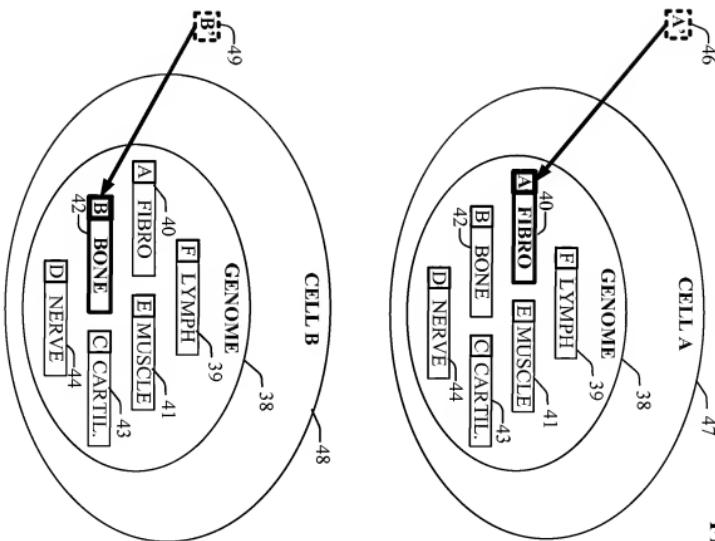


FIG. 6

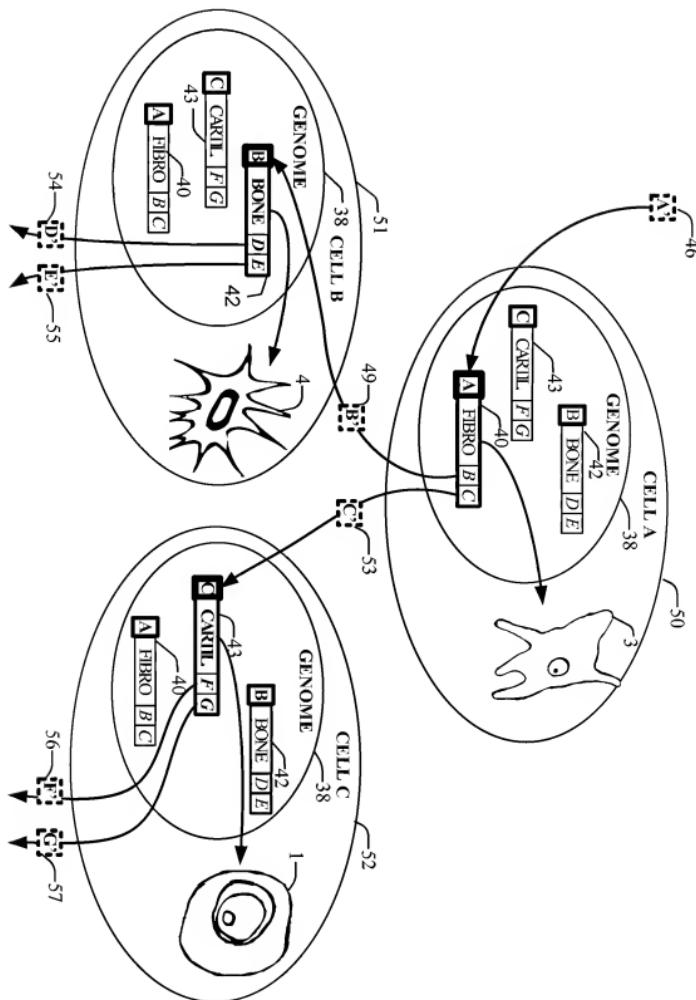
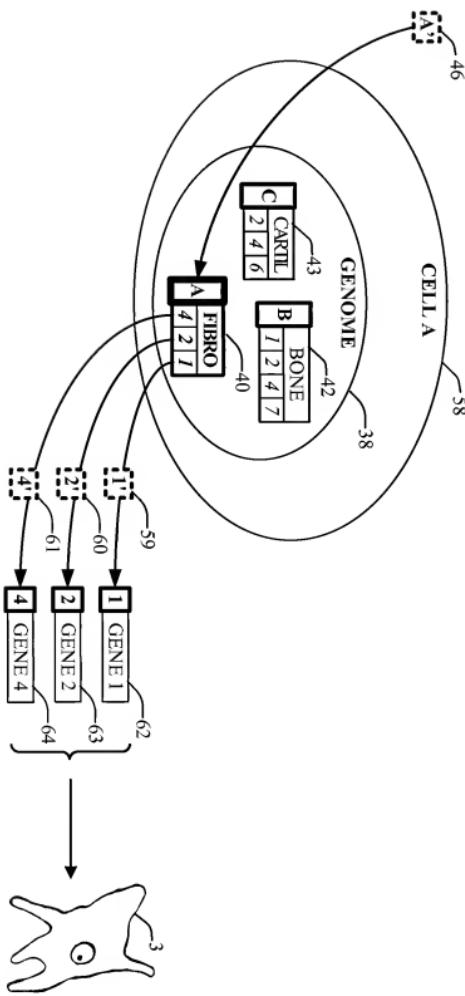
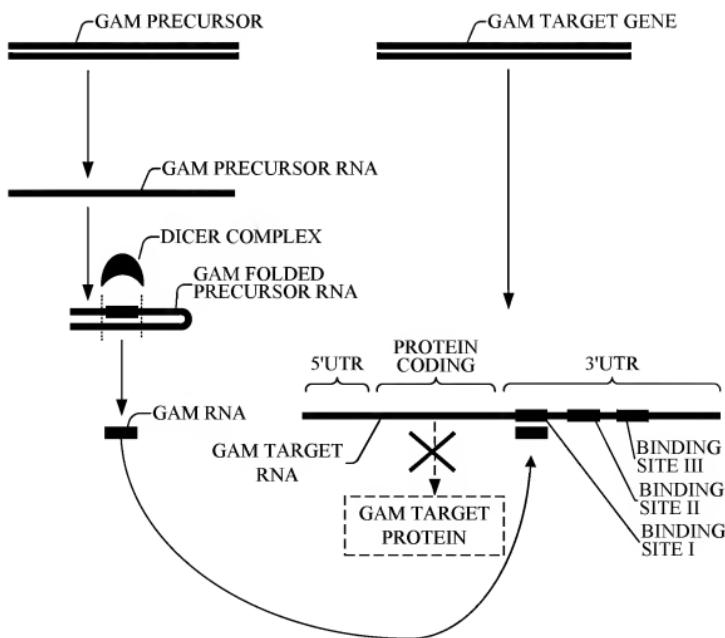


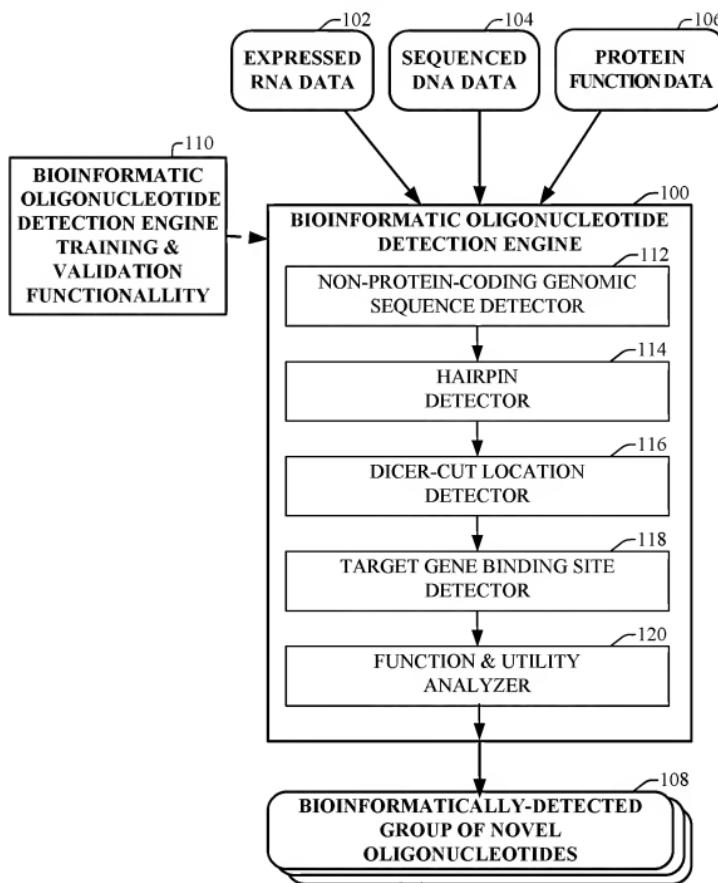
FIG. 7



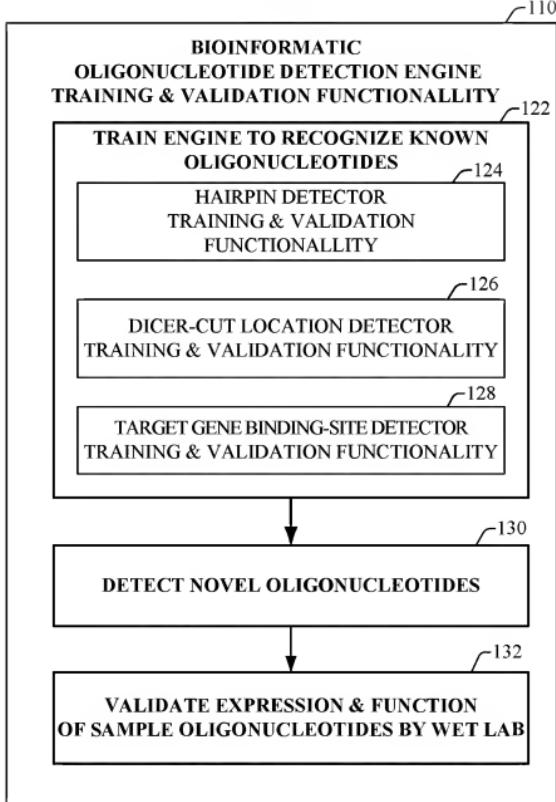
**FIG. 8**



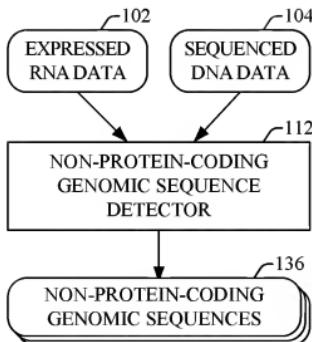
**FIG. 9**



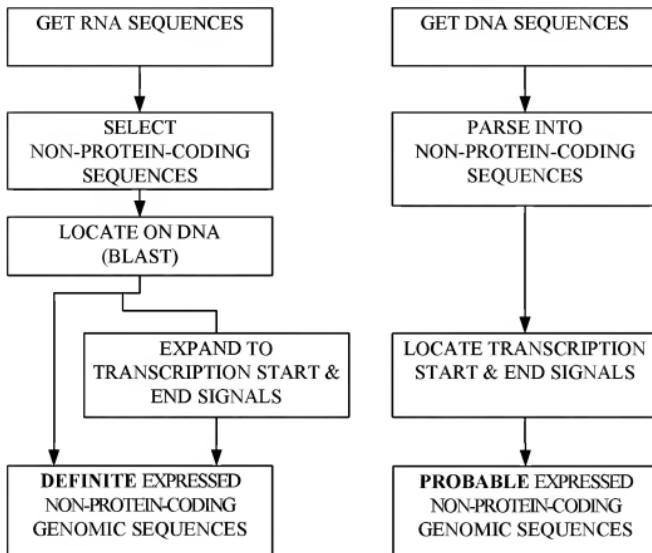
**FIG. 10**



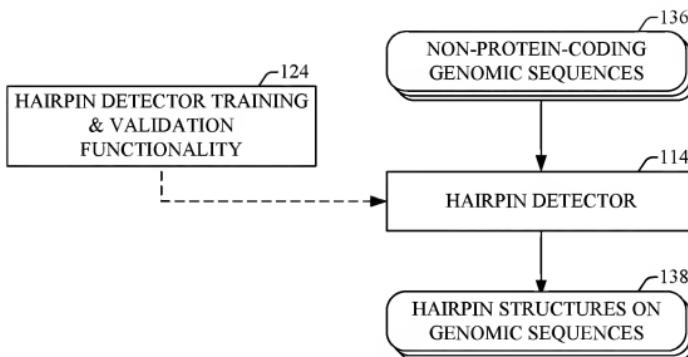
**FIG. 11A**



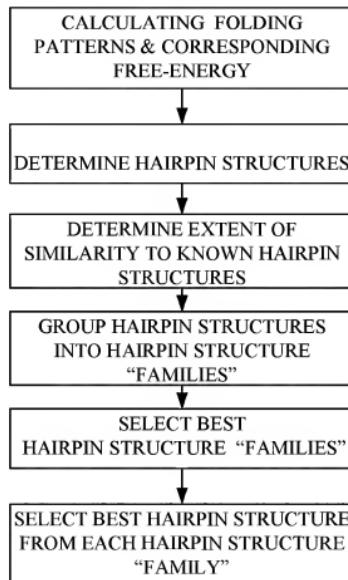
**FIG. 11B**



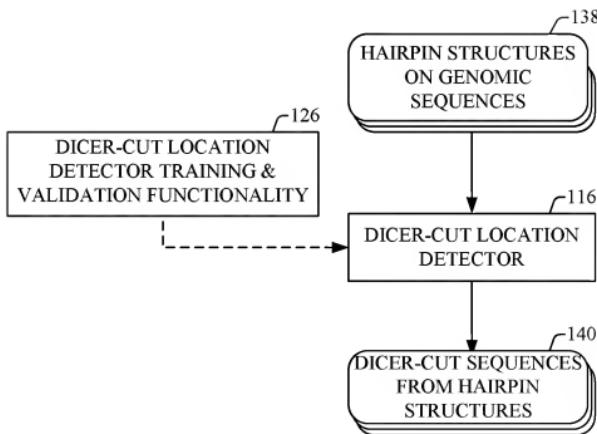
**FIG. 12A**



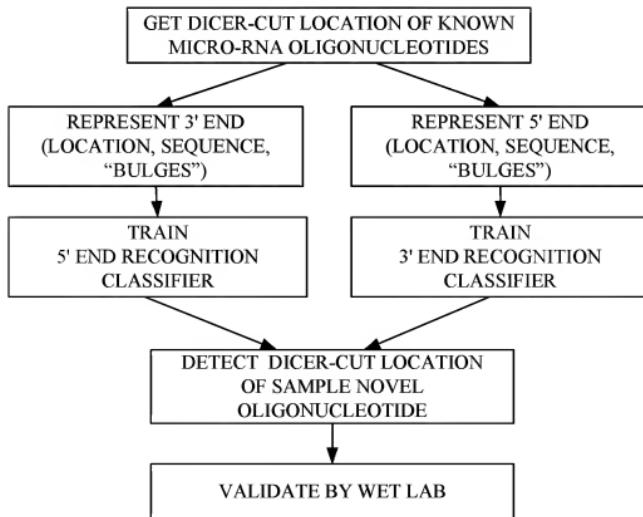
**FIG. 12B**



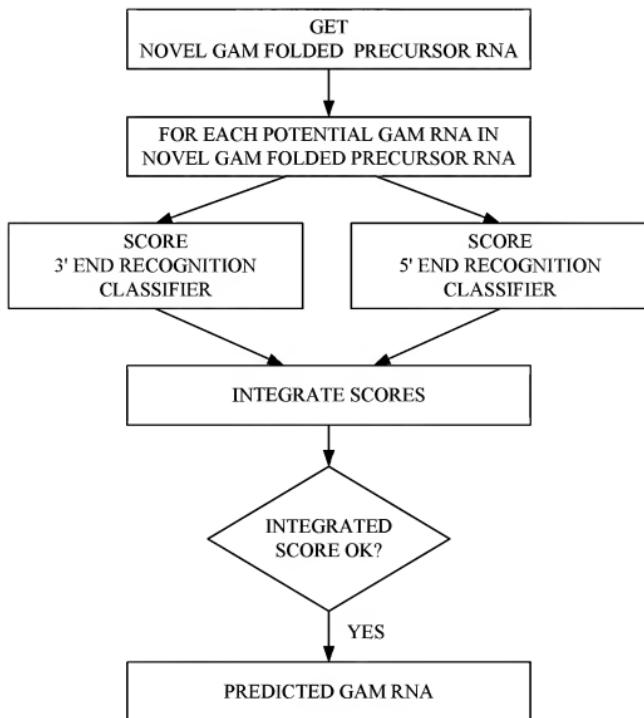
**FIG. 13A**



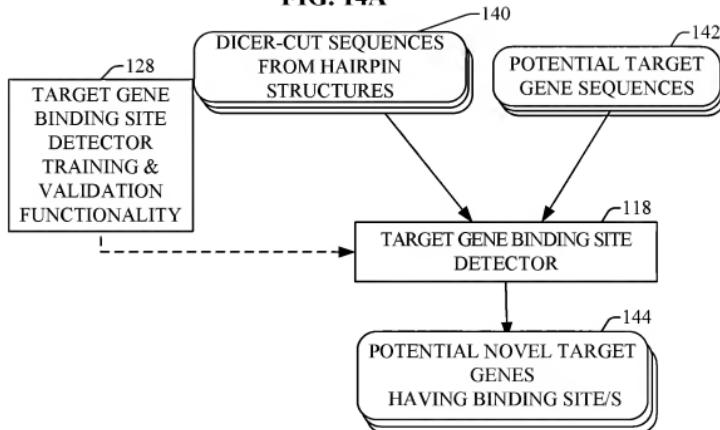
**FIG. 13B**



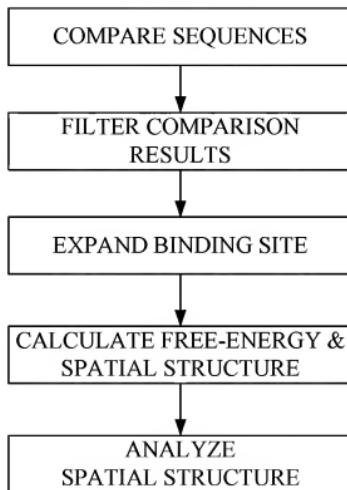
**FIG. 13C**



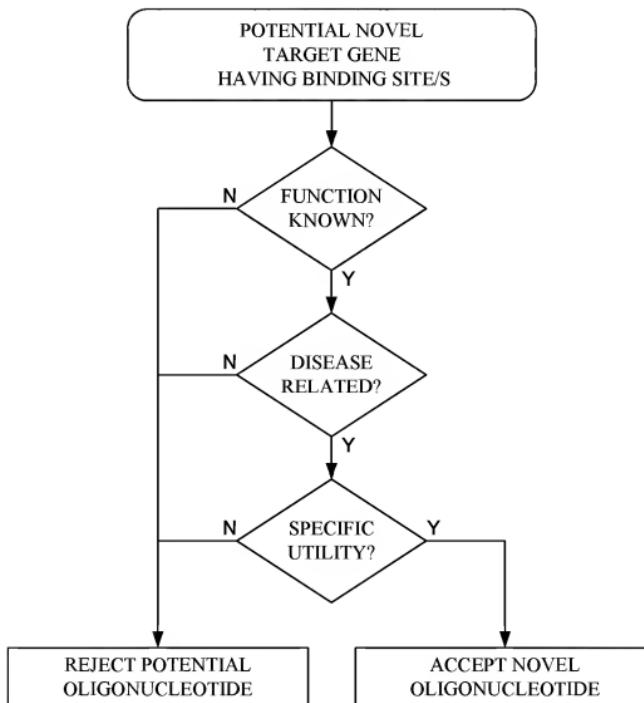
**FIG. 14A**



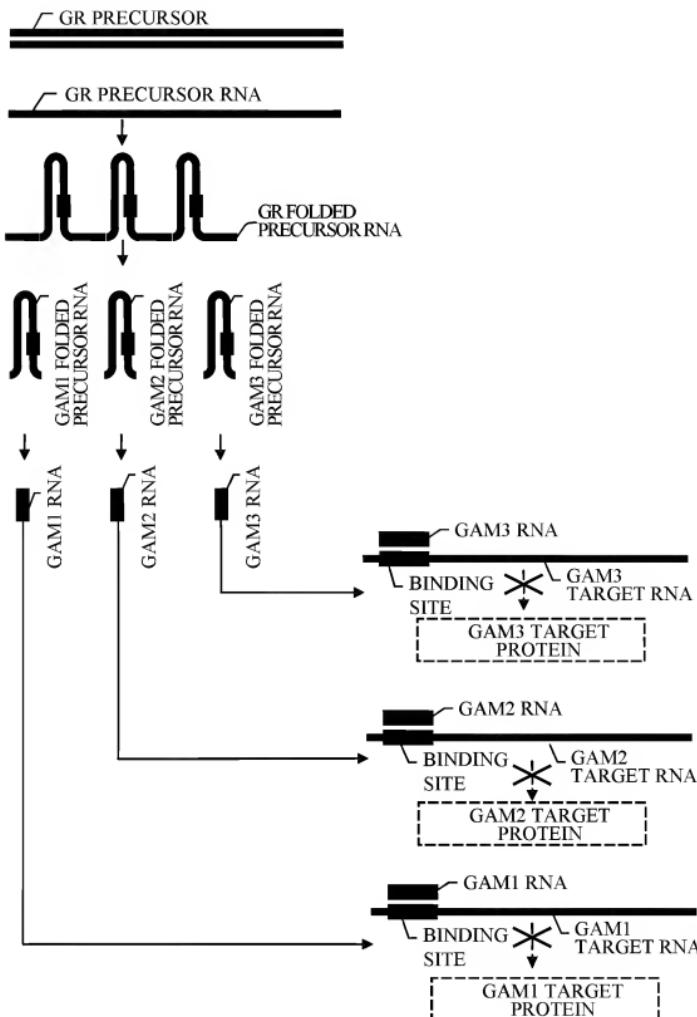
**FIG. 14B**



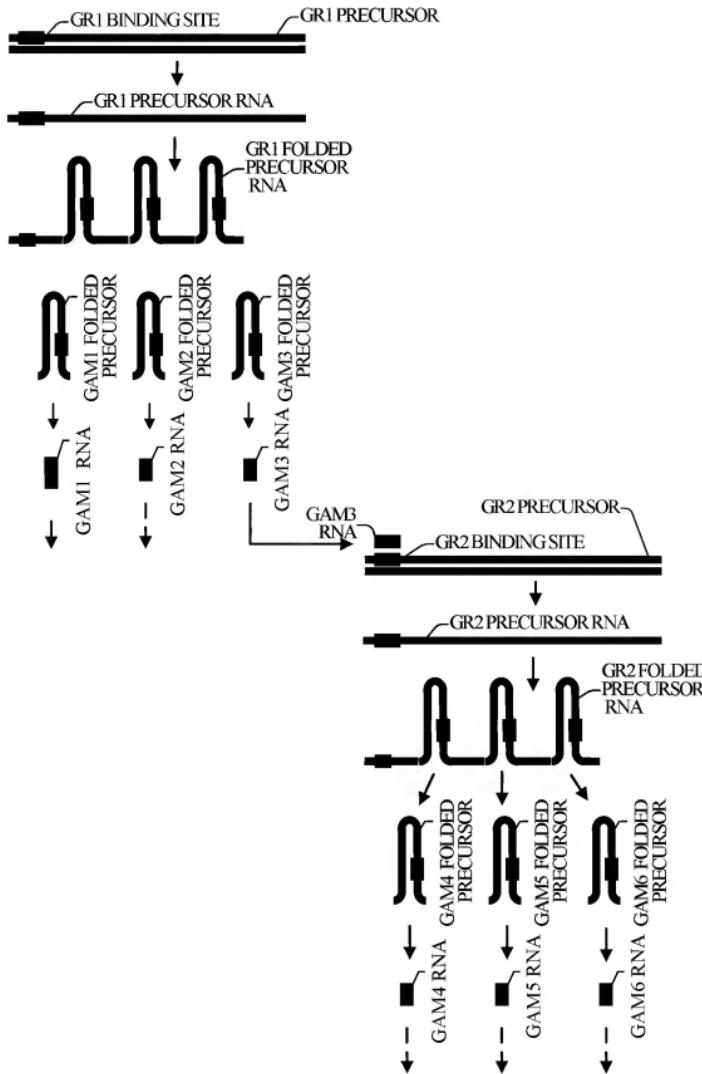
**FIG. 15**



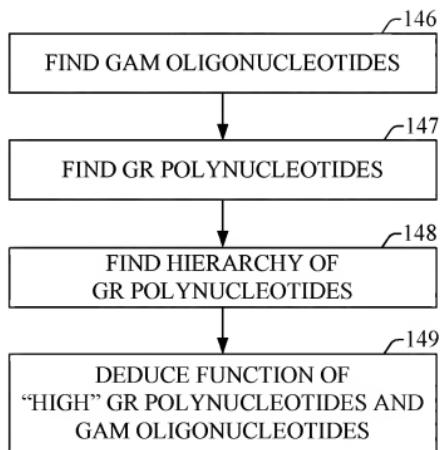
**FIG. 16**



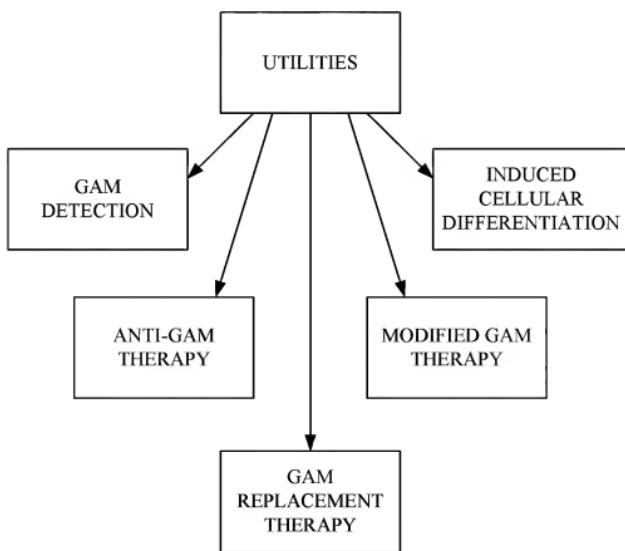
**FIG. 17**



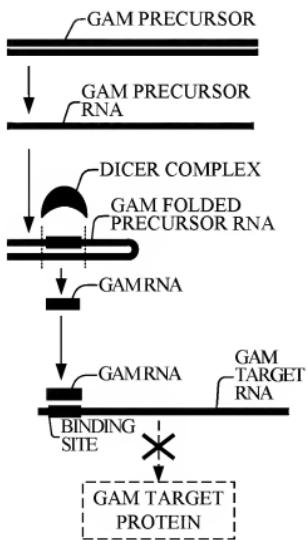
**FIG. 18**



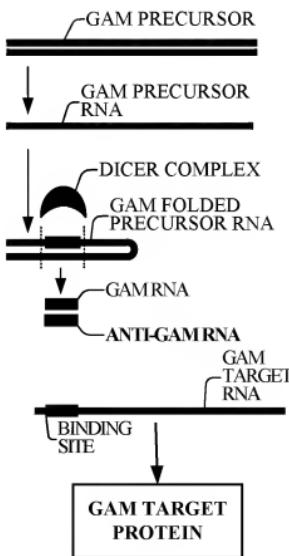
**FIG. 19**



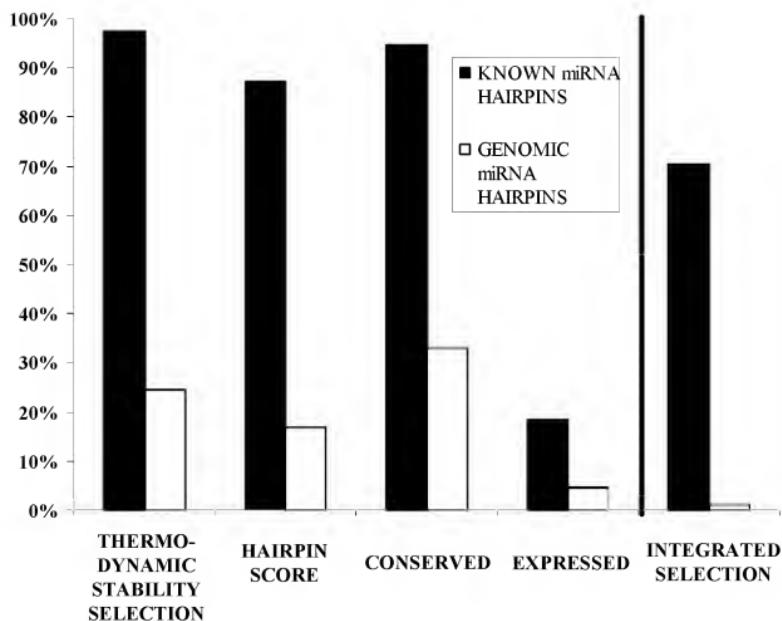
**FIG. 20A**



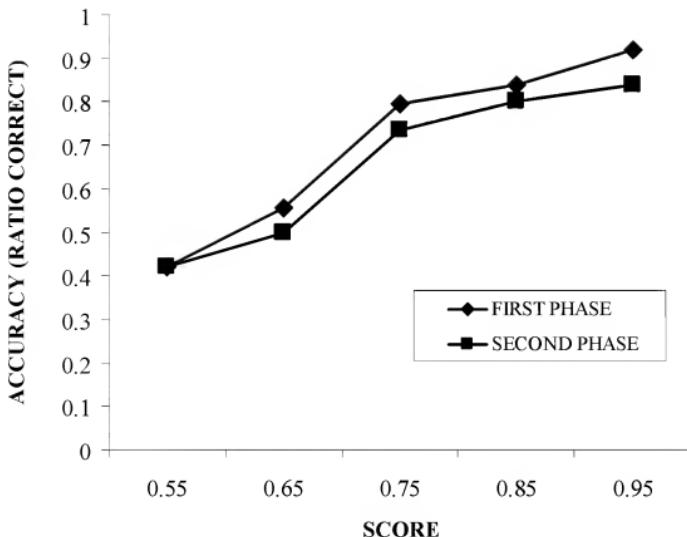
**FIG. 20B**



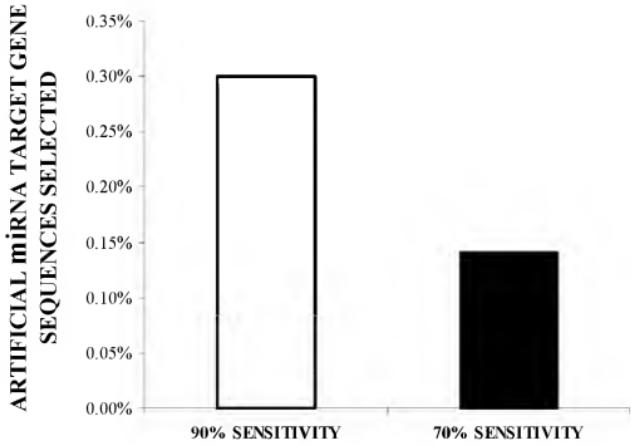
**FIG. 21A**



**FIG. 21B**



**FIG. 21C**



**FIG. 22**

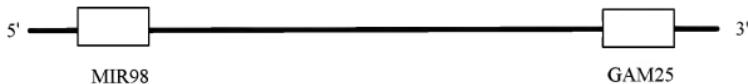
ROW	PRIMER SEQUENCE	SEQUENCED SEQUENCE	PREDICTED GAM RNA	DIST- ANCE	GAM NAME
1'	AATTCGCTTGAAC	CCAGGAAGTGGAA	AATTCTGTGAAACCGAGGAAGTGGAA	0	25-A
2'	ACTTGCACTCC	AGCCCTGGGC	ACTGCACTCAGGCTGGCTAC	0	351681-A
3	CACTGCACCTC	CAGCCGAGCAACA	CACTGACATGCCGAGCAA	0	351946-A
4	CITAGACTGGAAG	CTCCCTGAGGAC	CITAGACITGAAGCTCCCTGAGGA	0	352759-A
5	GAAGTTTGAAG	CCTGTTCTCA	GAAGTTTGAAGCTGTTGTC	0	4426-A
6	TCACTCCAAC	CTCCACCA	(TCAGTGCAACCTCCACAGGTC)(TCAGTGCAACCTCCACAGGTC)	0	(357950-A),(352721-A)
7	TCTAAAGGAAAG	GAAGTTCTAGA	TCTAAAGGAAAGGAGTCAGA	0	351980-A
8	GGGCAGTGGAA	GOTGGAA	GGGGCTGGAGCTGGATGATGT	1	351986-A
9	AATTGCTTGAC	CCAGAAAGTGGAA	AATTCACTTGAGCCAGAAGTGGAA	2	351874-A
10	AGGAGCCAA	GGCTTGT	AGGAGCAACCTGGTTGTT	2	352093-A
11	AGGCAAGAGC	GACCGAA	AGGCAGAGGAGGACAGACT	2	351944-A
12	AGGGAAGAAAT	TAATGTGAA	GGGAATAATTAATGTGAGTC	2	353325-A
13	AGGGAAAGAAAT	TAATGTGAG	AGGAAAAAATAATGTGAGTC	2	352649-A
14	ATTCACTTG	CCCATGTT	(ATTGTCGCCATGTTTATT), (ATTGTCGCCATGTTTATT), (ATTGTCGCCATGTTTATT), (ATTGTCGCCATGTTTATT), (ATTGTCGCCATGTTTATT)	2	A,(352957-A),(352960-A)
15	CTAGACTGGAAG	CTCTTGTGAGG	CTGGCACTGAGCTCTTGTGAGCC	2	352288-A
16	TTCAGAGTGGT	TAAGTCTG	TCTCTGATGGTAAAGTGTGTC	2	353875-A
17	TTCAGAGTGGT	TAAGTCTG	TTCAGAGTGGTAAAGTGTGTC	2	351940-A
18	AGCCAGCCCCA	GAAGGAAAG	AGGCCAGAGGAGGAGCAGAGG	3	352496-A
19	AGTTGGCTTG	TAAGGAAAG	AGTTGGTAAAGAAGAGC	3	352518-A
20	ATCAGAGGGTG	GOTGCTAA	ATTAGGAGAGTGGTGTAAAGT	3	352511-A
21	ATGGTGGGAG	AGTTTGTCACT	TGGAGGAGAGTGGTGTAAAGT	3	353484-A
22	COCCAGGAAG	TEGAGCTGGGG	COCCGGTGGAGCTGGGGCTGTG	3	351980-A
23	GGGCAGTGA	GTTCCGT	AGGGCAGGAGGTCCTCCCTTC	3	353880-A
24	GGGGAGTGGGA	TCTAGAC	GTGACAGTGAATCTAGACAGAC	3	352810-A
25	TCAAGCTCATTC	CACTAA	CTCAGCTCATCCACTAAATGCC	3	353184-A
26	TGAAAGTT	GGTTGTTGTT	GGAAATGGCTGATTTGGTT	3	353885-A
27	TGGAGAGTT	GCATATTG	TGATGAGCTGATTTGGTT	3	352004-A
28	TGGAGAGTT	GTTCGTACAGT	TEGGTTTGTGAGTGTAA	3	353180-A
29	TCACTGCAAC	CTCCACC	TCACCTCAACCTCACCTCCG	0	353886-A



FIG. 24A

### **EST72223 (705 nt.)**

Chr X



### EST72223 sequence:

CCCTTATTAGAGGATCTGCTATGCCAGGGTGAGGTAGTAAGTTGATG  
TGTGGGGTAGGATAATTAGGCCAAATTAGAAGATAACATACAATG  
MIR98  
TACTACTTCCCCTGGTGTGGCATATTACACTTGTCTAGCGATGGCC  
TCCATCAGACAAAGTTAGATGTTCTTGGATAATTGGACTGGAAGAAAAGA  
GACATGGAGGGGACAGATGGTTAGGGTGAGGGCAGATGCTTAAAGT  
GACTTGTCTTCAATTAGGCGATATAATTATTTACCTTGGGCATGAACTC  
ATTTTGCTATTCTTCAACTGTGATATTGTCATTAAAGAACAGGA  
ATGTGTCAGGAAAGTGAAGACATCTTAAAGAATTGGGCCAGGGCGGT  
GGTTCATGCTGTAATCCCAGCATTTGGAGGCCAGGGGTGGATCAC  
CTGAGGTCAGGGATTCGAGGCCAACCTGGCCAACACGGCGAACCCCGCCCT  
GAM25  
TACTAACATAACAAAATTAGCCAGGCTTGTGGTACACTCGCCCTGTGGCCAGC  
TACTCAGGAGGCTTGAGGCAAGGAATTTGCTTGAACCCAGGAATGTTGAG  
GCTTCAGTGAGCTTGAGAACACCCGCACTGCACTCCAGTCCTGGGCAAC  
AGAGCAAGACTCTGCTCAGGAAAAAAAG

FIG. 24B

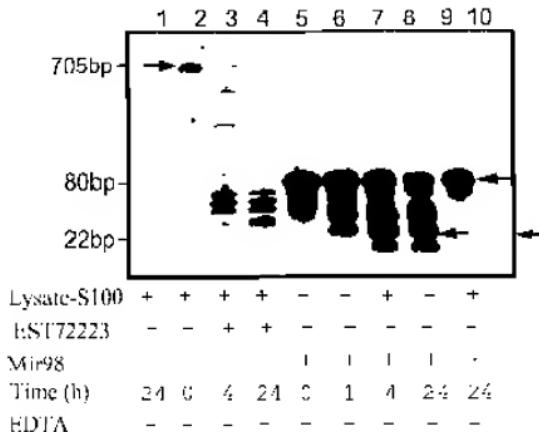


FIG. 24C

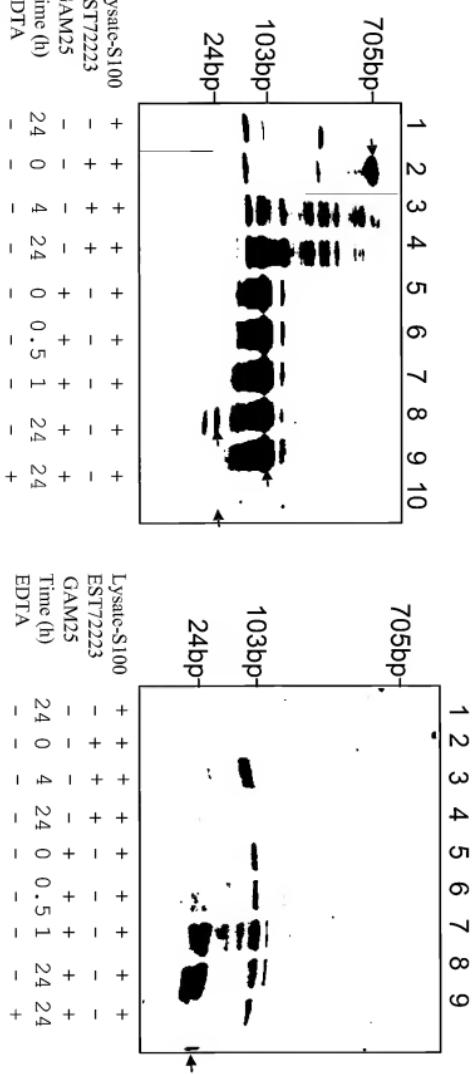
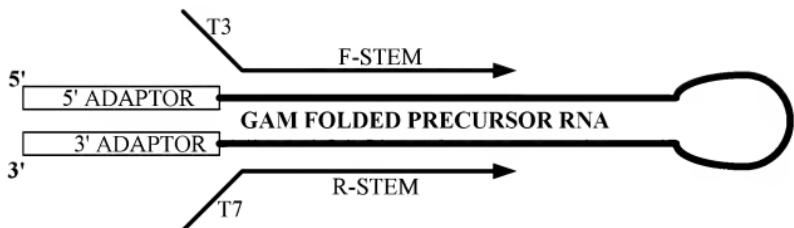
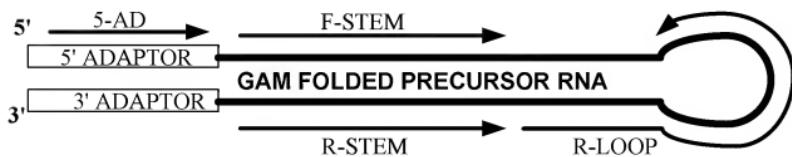


FIG. 24D

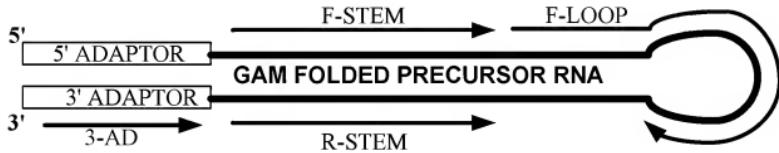
**FIG. 25A**



**FIG. 25B**



**FIG. 25C**



**FIG. 25D**

PREDICTED PRE SEQUENCE	PRIMER1 TYPE/NAME	PRIMER1 SEQUENCE	PRIMER2 TYPE/NAME	PRIMER2 SEQUENCE	METHOD	OBSERVED SEQUENCE	GAM NAME
AATGCTGAGTCCT GTGAGTCTTCCTA GCAAATCAATCT GGAAGGGTCTTG AGGACTCCAGCAT							
1 T	F STEM 1 3		R STEM 1 3				
TGAGCCCTCAGCC CTCATGGCTTCC CGATGCTCACCGG TGCAGAGGAGCC AGCTGGGAGCCT							
2 CTGT	R LOOP 2 1	AGG	R STEM 2 1	CCA	B		
ACTGTTGGCTTC TGTTCAGCCATT TCTCAGTCTGT GCAGGGAGTGT GAAACAAAGTTG ATAGGCCAGAGA GTGAGGAAGCTGCA TTTCATGTCCTCC 3 AACAGT							
3	TCTCTAGT TCTGTCGA GGAGTG		CTTCTCACT CTTCTGGGC TATACT		A		

**FIG. 26A**

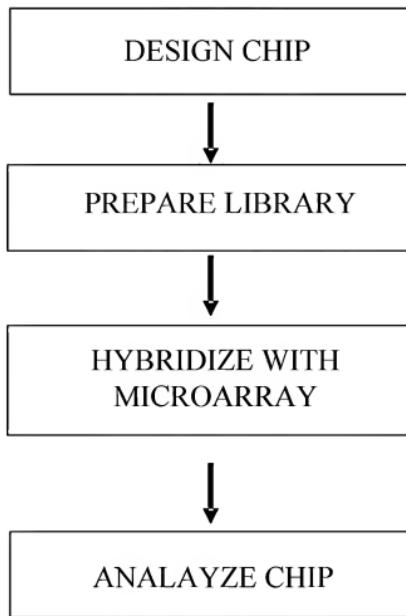
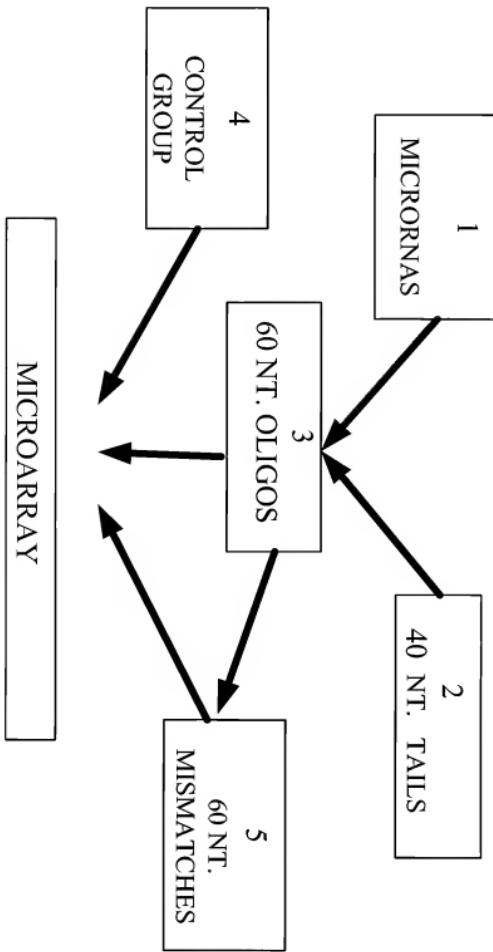
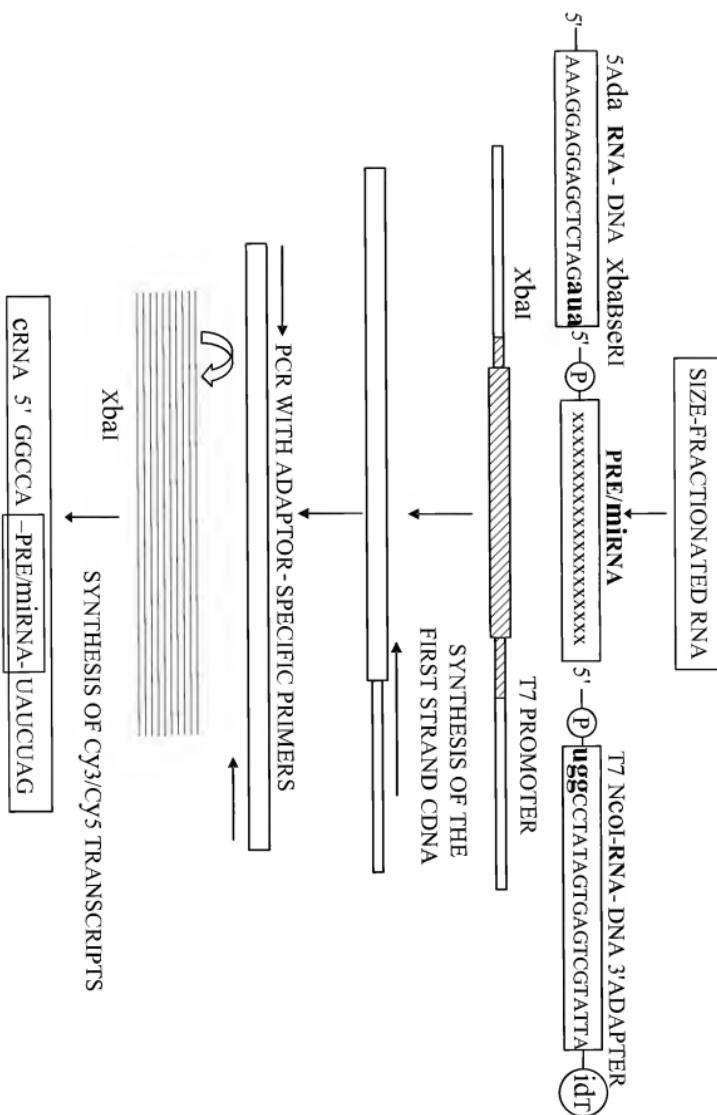


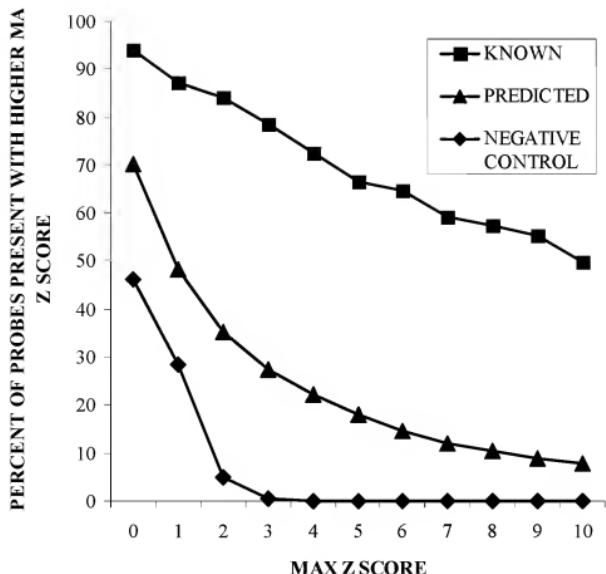
FIG. 26B



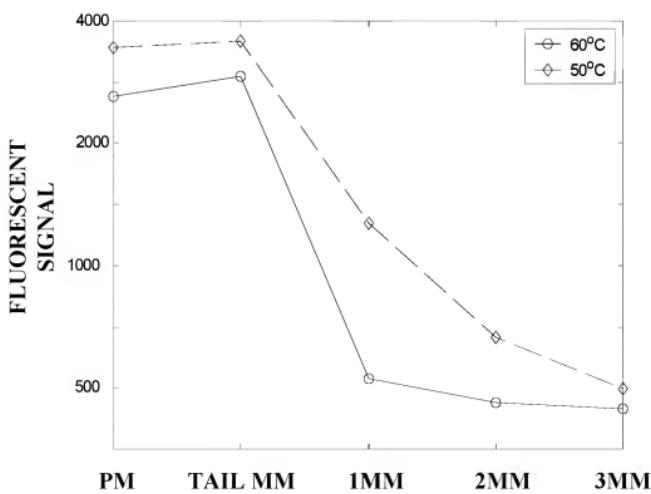
**FIG. 26C**



**FIG. 27A**



**FIG. 27B**



**FIG. 2C**

MIRNA NAME	HELA	BRAIN	LIVER	THYMUS	TESTES	PLACENTA	REFERENCE
HSA-MIR-124A	1879	65517	7025	3099	2672	2498	1,3
HSA-MIR-9	642	42659	3504	4455	4485	2313	2,3
HSA-MIR-128A	2015	27701	4940	4876	5166	2495	3
HSA-MIR-129	503	22573	1175	2213	5364	2017	3
HSA-MIR-128B	1168	21969	3954	4819	5383	2027	
HSA-MIR-122A	1051	447	65518	2644	617	570	1,3
HSA-MIR-194	501	910	65518	4737	2342	7052	3
HSA-MIR-148	413	620	38436	5250	6204	2711	
HSA-MIR-192	452	606	20650	1628	1263	2607	
HSA-MIR-96	887	3100	1477	44800	2266	5466	
HSA-MIR-150	648	1463	5295	65518	29728	5280	
HSA-MIR-205	551	615	1646	65518	2645	39072	
HSA-MIR-182	662	1944	1091	25771	2034	3683	
HSA-MIR-183	1026	1123	1286	8754	1681	2138	
HSA-MIR-204	525	3898	1757	6555	64859	6233	
HSA-MIR-10B	410	433	477	3871	23083	738	
HSA-MIR-154	438	733	1914	3309	14750	9637	
HSA-MIR-134	448	617	698	763	2250	997	
HSA-MIR-224	3233	11061	7684	32305	5377	65518	
HSA-MIR-210	844	2280	10703	6864	15288	62452	
HSA-MIR-221	625	9325	3520	20212	10608	54287	
HSA-MIR-141	696	805	1220	4063	2000	46845	
HSA-MIR-23A	1312	3492	2990	6021	11173	40076	
HSA-MIR-200C	556	595	1027	10636	1478	3532	
HSA-MIR-136	465	725	709	776	3100	8840	

<sup>1</sup> LAGOS-QUINTANA ET AL., CURRENT BIOLOGY 12:735 (2002)<sup>2</sup> KRICHEVSKY ET AL., RNA 9:1274 (2003)<sup>3</sup> SEMPERE ET AL., GENOME BIOLOGY 5:R13 (2004)